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**From:** Lindstrom, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=04BF7CF26AA44CE29763FBC1C1B2338E-LINDSTROM, ANDREW]  
**Sent:** 9/7/2018 1:14:40 PM  
**To:** Washington, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fdc3e8ce9f1d45c4894881ff420ca104-Washington, John]  
**CC:** Pilant, Drew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c9669a68dabb4704bdd7c2eb85f998b2-Pilant, Drew]  
**Subject:** RE: Spatial data for PFAS samples?

John,

I don't think there is any harm in trying to visualize the preliminary data – as long as we keep in mind that it eventually needs to go through the full QA process.

There's always little dinks to the data that help sharpen the final analysis, but it is often very helpful to just plot the preliminary information to help start thinking about it.

I'm hoping there will be lots of dialog between the different folks on this project so making changes and ongoing suggestions should be part of that.

Thank you very much,

Andy

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**From:** Washington, John  
**Sent:** Thursday, September 6, 2018 11:00 AM  
**To:** Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Cc:** Pilant, Drew <Pilant.Drew@epa.gov>  
**Subject:** RE: Spatial data for PFAS samples?

Drew,

Were you after only the lat-long data for NJ at this point, or did you also want chemical data?

## Ex. 5 Deliberative Process (DP)

So do you want me to send QA-approved PFAS data yet, or do you prefer waiting for management to clear the data?

Thanks,  
John

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**From:** Lindstrom, Andrew  
**Sent:** Thursday, September 6, 2018 10:31 AM  
**To:** Washington, John <Washington.John@epa.gov>  
**Cc:** Pilant, Drew <Pilant.Drew@epa.gov>  
**Subject:** RE: Spatial data for PFAS samples?

John,

I think it is a great idea to try to start working on this project to help summarize the data that have already been produced as part of the NJ DEP collaboration.

Our briefing to R2 and the Program Offices on September 25<sup>th</sup> could benefit from anything that you may come up with.

Thank you very much,

Andy

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**From:** Washington, John  
**Sent:** Thursday, September 6, 2018 9:48 AM  
**To:** Pilant, Drew <[Pilant.Drew@epa.gov](mailto:Pilant.Drew@epa.gov)>  
**Cc:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** RE: Spatial data for PFAS samples?

Drew,

I am attaching a spreadsheet of lat/long that I have worked off of. In it I noticed that samples 1 and 10 are indicated as the same location. I have received an email from NJ correcting this. I plan to try to find it for you. Ex. 5 Deliberative Process (DP)

## Ex. 5 Deliberative Process (DP)

John

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**From:** Pilant, Drew  
**Sent:** Tuesday, September 4, 2018 3:59 PM  
**To:** Washington, John <[Washington.John@epa.gov](mailto:Washington.John@epa.gov)>; Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** RE: Spatial data for PFAS samples?

Hi John,

Thanks for the papers and comments. The papers are good for my knowledge, but not so much so from a mapping standpoint. If necessary, we could plot these sample locations using their lat/long.

In general, we are looking for precise measurements of lat/long (within a few meters accuracy).

Onward!  
Drew

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**From:** Washington, John  
**Sent:** Tuesday, September 04, 2018 1:12 PM  
**To:** Pilant, Drew <[Pilant.Drew@epa.gov](mailto:Pilant.Drew@epa.gov)>; Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** Re: Spatial data for PFAS samples?

Hi Drew,

Here is something easy for me to find, but I am unsure if it helps your effort. We wrote a paper on PFASs in soils from around US and the world that were not associated with any obvious contamination. We found one or more PFASs in every sample, including Antarctica.

The SI has the PFAS data as well as lat/long for every sample. Does this help your effort??

I also have old papers on PFASs in ag soils and plants that received biosolids sludge applications in Alabama. (Andy and Mark have water samples from these sites as well.) And I have an old paper on PFASs river water and sediment samples, in Georgia, mostly from sewage treatment discharge. These Alabama and Georgia studies have sample maps, but not lat/long if I remember correctly. Would any of these papers help? Let me know if yes.

John

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**From:** Pilant, Drew  
**Sent:** Friday, August 31, 2018 9:38:39 AM  
**To:** Washington, John  
**Subject:** Spatial data for PFAS samples?

Hi John!

Hope you are well, and out of the office today on some amazing long weekend vacation.

I'm working on the geospatial mapping portion of shark tank PFAS. I hear you have some soil sample data around a known PFAS source (or something like that). Do you have any data/information I can begin to organize? Shapefiles or spread sheets with lat/lon?

We are hiring an ORISE fellow to do this work, but I thought I'd get started organizing.

Ttyl,

Drew

Andrew Pilant

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